

Having thus described the invention, what is claimed is:

- 1 1. An air seeder comprising:
 - 2 a frame;
 - 3 a pair of ground engaging wheels;
 - 4 a first container having a bottom floor, an outer end wall, an opposite inner
 - 5 end wall, and side walls connecting said outer end wall and said opposite inner
 - 6 end wall;
 - 7 a second container having a bottom floor, an outer end wall, an opposite
 - 8 inner end wall, and side walls connecting said outer end wall and said opposite
 - 9 inner end wall;
 - 10 a first and second metering mechanism for distributing particulate material
 - 11 to the ground, said first metering mechanism being located in close proximity to
 - 12 said second metering mechanism;
 - 13 a trough incorporated into said bottom floor of each of said first and second
 - 14 containers;
 - 15 an auger rotatably mounted in each of said troughs for transporting said
 - 16 particulate material along said corresponding bottom floor to said corresponding
 - 17 metering mechanism; and
 - 18 a motor for rotating each of said respective augers to convey said
 - 19 particulate material to said corresponding metering mechanism, each of said

20 motors being initiated only when required to convey said particulate material to
21 said respective first and second metering mechanisms.

1 2. The air seeder of Claim 1, wherein said floors of said first and second
2 containers define a v-shaped configuration converging at said first and second
3 metering mechanisms, respectively.

1 3. The air seeder of Claim 1, further comprising a fan mechanism and a pair of
2 conveying tubes that pass at least partially internally in at least one of said
3 containers for delivering air to said metering mechanisms.

1 4. The air seeder of Claim 2, wherein said first and second containers define a
2 double v-shaped configuration to facilitate movement of said particulate material
3 into said auger for conveyance of said particulate material to said first and second
4 metering mechanisms.

1 5. The air seeder of Claim 4, wherein said troughs are located in a lower apex
2 of each of said v-shaped configurations, each of said troughs having an auger
3 rotatably mounted therein for transporting said particulate material along said floor
4 to said metering mechanism.

1 6. The air seeder of Claim 1, wherein at least one of said first and second
2 metering mechanisms includes a sensor, and wherein said initiation of said motor
3 occurs when said sensor detects a shortage of said particulate material to be
4 dispensed through said respective first or second metering mechanisms.

1 7. The air seeder of Claim 1, wherein each of said containers includes an
2 optical sensor to detect a level of particulate material within said respective
3 containers, said initiation of said motor and subsequent rotation of said
4 corresponding augers occurring when one of said optical sensors detects a
5 decreased level of said particulate material in said container.

1 8. The air seeder of Claim 1, wherein said auger is initiated in response to a
2 sensed lowered torque to effect rotation of said auger as said particulate product
3 drains from said container.